

# 3M Privacy Filter ALCF-P ABR2 Specifications

Preliminary Technical Data Sheet

February 2016

**Description** This document provides customer specifications for Advanced Light Control Film ALCF-P ABR2

**Applications** ALCF-P ABR2 is a micro replicated film that controls the amount of light that passes through the film at high angles. At small angles, close to perpendicular to the surface of the privacy filter, the majority of the incident light is transmitted through the privacy filter. At angles outside of the 60 degree viewing angle, light is absorbed by the black louvers providing the user with privacy.

## Material

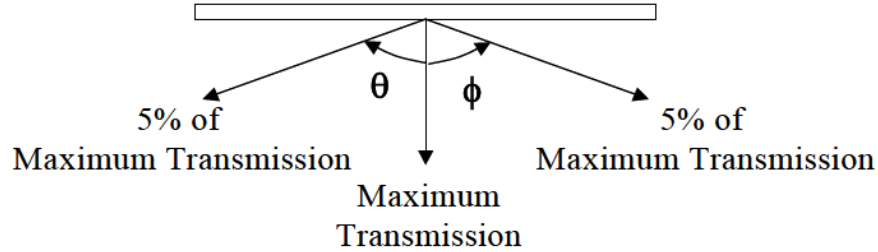
Outer Substrates: Abrasion Resistant Polycarbonate (one side gloss and one side matte finish)  
Louver Layer: Acrylic Resin and Carbon Black

## Typical Properties

Property (Test Method)	Typical Value
Viewing Angle	60° ± 4°
Louver Angle	0° ± 2°
Nominal thickness	0.53 ± 0.08 mm
Cold resistance	-40°C, 500 hours
Heat resistance	85°C, 500 hours
Humidity resistance	65°C, 95% relative humidity, 500 hours
Thermal shock resistance	-40° to 85° C for 100 total cycles at 1 hour per cycle
Color Change	Delta E 2.0

## Viewing Angle Definition

- Viewing Angle – The sum of the angles ( $\theta$  and  $\phi$ ), measured from the angle of maximum transmission, at which only 5% of the maximum transmission is transmitted through the film.



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**Protective Liners** ALCF-P ABR2 Privacy Filter kits have protective liners on both sides of the glossy privacy film to protect during shipping, handling, or laminating.

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**Availability** For availability, please contact our customer service group at 1-800-553-9215 or visit our website at [3mprivacyfilter.com](http://3mprivacyfilter.com)

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